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	L7	(borrow\$ adj virtual adj time)	0			
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1 Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a



general-purpose scheduler

Kenneth J. Duda, David R. Cheriton

December 1999 ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP

'99, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.81 MB)

Additional Information: full citation, abstract, references, citings, index terms

Systems need to run a larger and more diverse set of applications, from real-time to interactive to batch, on uniprocessor and multiprocessor platforms. However, most schedulers either do not address latency requirements or are specialized to complex realtime paradigms, limiting their applicability to general-purpose systems. In this paper, we present Borrowed-Virtual-Time (BVT) Scheduling, showing that it provides low-latency for real-time and interactive applications yet weighted sharin ...

2 Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a



general-purpose scheduler

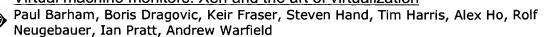
Kenneth J. Duda, David R. Cheriton

April 2000 ACM SIGOPS Operating Systems Review, Volume 34 Issue 2

Publisher: ACM Press

Additional Information: full citation, index terms

Virtual machine monitors: Xen and the art of virtualization



October 2003 Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(168.76 KB) terms

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance quarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

4 Effects of clock resolution on the scheduling of interactive and soft real-time

processes

Yoav Etsion, Dan Tsafrir, Dror G. Feitelson

June 2003 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '03, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(512.91 KB) Additional Info

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

It is commonly agreed that scheduling mechanisms in general purpose operating systems do not provide adequate support for modern interactive applications, notably multimedia applications. The common solution to this problem is to devise specialized scheduling mechanisms that take the specific needs of such applications into account. A much simpler alternative is to better tune existing systems. In particular, we show that conventional scheduling algorithms typically only have little and possibly ...

**Keywords**: Linux, clock interrupt rate, interactive process, overhead, scheduling, soft real-time, tuning

5 Scheduling and resource allocation: Energy-efficient soft real-time CPU scheduling



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for mobile multimedia systems

Wanghong Yuan, Klara Nahrstedt

October 2003 Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM Press

Full text available: pdf(511.80 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

This paper presents *GRACE-OS*, an energy-efficient soft real-time CPU scheduler for mobile devices that primarily run multimedia applications. The major goal of GRACE-OS is to support application quality of service and save energy. To achieve this goal, GRACE-OS integrates dynamic voltage scaling into soft real-time scheduling and decides how fast to execute applications in addition to when and how long to execute them. GRACE-OS makes such scheduling decisions based on the probability dist ...

**Keywords**: mobile computing, multimedia, power management

<sup>6</sup> A SMART scheduler for multimedia applications



Jason Nieh, Monica S. Lam

May 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 2

**Publisher: ACM Press** 

Full text available: pdf(570.87 KB) Additional Information: full citation, abstract, references, index terms

Real-time applications such as multimedia audio and video are increasingly populating the workstation desktop. To support the execution of these applications in conjunction with traditional non-real-time applications, we have created SMART, a Scheduler for Multimedia And Real-Time applications. SMART supports applications with time constraints, and provides dynamic feedback to applications to allow them to adapt to the current load. In addition, the support for real-time applications is integrat ...

Keywords: Scheduling, multimedia, proportional sharing, real-time

7

Session 7: OS architecture II: Congestion prices as feedback signals: an approach to



#### QoS management

Rolf Neugebauer, Derek McAuley

September 2000 Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system

Publisher: ACM Press

Full text available: pdf(221.66 KB) Additional Information: full citation, abstract, references, citings

Recently there has been a renewed interest in the application of economic models to the management of computational resources. Most of this interest is focused on pricing models for the Internet; in particular, on congestion or shadow prices, that address the phenomenon of what economists call external costs --- users are exposed to the costs they impose on other users when causing congestion of a resource. This paper describes how congestion prices can be applied to resource management in operat ...

8 Scheduling best-effort and real-time pipelined applications on time-shared clusters



Yanyong Zhang, Anand Sivasubramaniam

July 2001 Proceedings of the thirteenth annual ACM symposium on Parallel algorithms and architectures

Publisher: ACM Press

Full text available: pdf(252.82 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Two important emerging trends are influencing the design, implementation and deployment of high performance parallel systems. The first is on the architectural end, where both economic and technological factors are compelling the use of off-the-shelf computing elements (workstations/PCs and networks) to put together high performance systems called clusters. The second is from the user community that is finding an increasing number of applications to benefit from such high performance systems. ...

Keywords: clusters, coscheduling, parallel scheduling, simulation

9 Systems: Desktop scheduling: how can we know what the user wants?



**③** 

Yoav Etsion, Dan Tsafrir, Dror G. Feitelson

June 2004 Proceedings of the 14th international workshop on Network and operating systems support for digital audio and video

**Publisher:** ACM Press

Full text available: pdf(127.15 KB) Additional Information: full citation, abstract, references, index terms

Current desktop operating systems use CPU utilization (or lack thereof) to prioritize processes for scheduling. This was thought to be beneficial for interactive processes, under the assumption that they spend much of their time waiting for user input. This reasoning fails for modern multimedia applications. For example, playing a movie in parallel with a heavy background job usually leads to poor graphical results, as these jobs are indistinguishable in terms of CPU usage. Suggested solutions i ...

**Keywords**: frame rate, human centered computing, interactive, multimedia, scheduling, user I/O

10 <u>Session 11C: Minimizing migrations in fair multiprocessor scheduling of persistent</u> tasks



Tracy Kimbrel, Baruch Schieber, Maxim Sviridenko

January 2004 Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(249.22 KB) Additional Information: full citation, abstract, references

Suppose that we are given n persistent tasks (jobs) that need to be executed in an equitable way on m processors (machines). Each machine is capable of performing one unit of work in each integral time unit and each job may be executed on at most one



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This command is used in conjuction with the **Borrowed Virtual Time** scheduler to set the minimum **time** that a scheduled domain is allowed to run before it can ... xen.cosi.clarkson.edu/documentation/ xm-userguide/ch07s03.html - 3k - Cached - Similar pages

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[9] K. Duda and D. Cheriton, "Borrowed-Virtual-Time (BVT). Scheduling: Supporting

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The **Borrowed Virtual Time** (BVT) scheduler is targeted. for a diverse range of applications (eg, multimedia, inter-. active, batch) on a general-purpose OS. ...

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#### [Xen-changelog] This patch adds more content around the schedule ...

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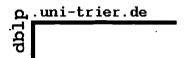
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Proceedings of the 17th ACM Symposium on Operating System Principles, December 12-15, 1999, Kiawah Island Resort, near Charleston, South Carolina, USA, Operating System Review 33(5), ACM Press, 1999, ISBN 1-58113-140-2

# **Distributed Systems 1**

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• Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad:

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• John R. Douceur, William J. Bolosky:

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• Kenneth J. Duda, David R. Cheriton:

Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a general-purpose schedular. 261-276

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• Khawar M. Zuberi, Padmanabhan Pillai, Kang G. Shin:

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Uses **Borrowed Virtual Time** algorithm. Has low-latency wakeup of a domain when it receives an event. Fast dispatch important to minimize effect of ...
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#### CS 519: Operating Systems Theory

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US Economy: We're All Living on **Borrowed Time** Los Angeles **Times**, June 1, 2005 William G. Gale, Senior Fellow, Economic Studies ... www.brookings.edu/views/op-ed/20050601galeorszag.htm - 68k - Jan 21, 2006 - <u>Cached</u> - <u>Similar pages</u>

#### [PDF] The Art of Virtualization

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# [PDF] <u>arXiv:cs.DC/0404013 v1 5 Apr 2004</u>

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of a Borrowed Virtual Time scheduler, the low risk. of reservations, and the

strategyproofness of a market, scheduler. In addition, it is fair and ...

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... HM Levy (University of Washington) Borrowed-Virtual-Time (BVT) scheduling:

supporting latency-sensitive threads in a general-purpose scheduler KJ Duda, ...

lwn.net/1999/1014/a/sosp.html - 10k - Cached - Similar pages

# [Xen-changelog] This patch is another in the continued effort to ...

+ =over 4 =item I<sched-bvt> <Parameters> -Set Borrowed Virtual Time (BVT)

scheduler parameters. ... +Set Borrowed Virtual Time (BVT) scheduler parameters. ...

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# [PS] XenMon: QoS Monitoring and Performance Profiling Tool Performance ...

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Xen 3.0 was booted with the Borrowed Virtual Time scheduler (BVT) as a CPU scheduler.

BVT provides proportional fair share CPU scheduling based on weights. ...

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## The Virtual US Recovery is in Trouble | EnergyBulletin.net | Peak ...

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# Seminar on Systems Design and Implementation

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If a packet arrives and needs to **borrow** n number of tokens because the token bucket contains ... creating a **virtual time**-division multiplexing network. ... www.cisco.com/univercd/cc/td/doc/product/ software/ios120/12cgcr/qos\_c/qcpart4/qcpolts.htm - 40k - <u>Cached</u> - <u>Similar pages</u>

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# 4th USENIX OSDI Symposium Paper - 2000

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Ken uses the **Borrowed-Virtual-Time** algorithm to allow different domains to are the CPU ... detail in the article, "**Borrowed-virtual-time** (BVT) neduling: supporting latency-sensitive ... w.ccs.neu.edu/wiki/XENServer - 11k - <u>Cached</u> - <u>More from this site</u> - <u>Save</u> - <u>Block</u>

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apter 5. Composing Scheduling Policies. A thread, as a leaf node of the reduling hierarchy, can only be scheduled when each scheduler between it if the root of the hierarchy schedules it at the same time. ... The borrowed tual time (BVT) scheduler [20] has not been shown to be capable of widing ... it only increases a thread's virtual time when it is actually uning ...

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of activity! Again, the H-8 application has such a thread to manage its tual-time-critical tasks. ( ... tau second". For this, I borrowed a technique t Dave Shaw (Project8080 ...

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